

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application.

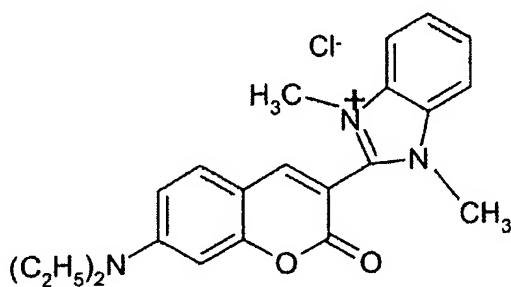
1. (Currently amended) A composition comprising, in a cosmetically acceptable medium,

at least one fluorescent dye that is soluble in said medium; and

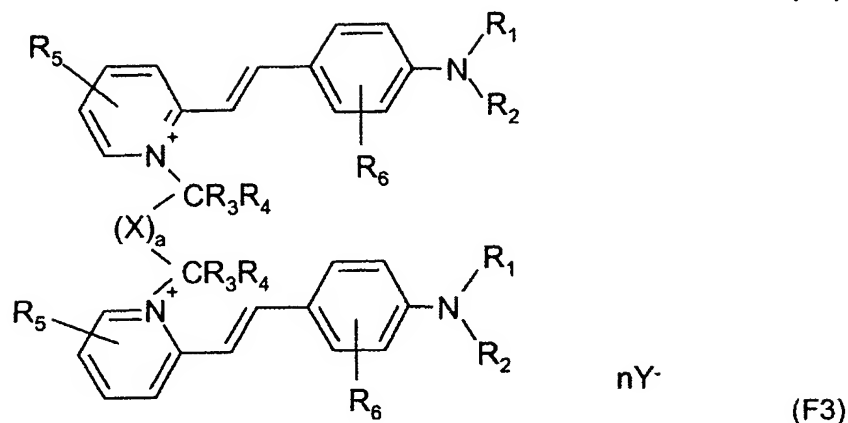
at least one associative polymer chosen from associative polyurethane derivatives, associative cellulose derivatives, associative polyvinyl lactam derivatives and associative unsaturated polyacid derivatives;

~~provided that the composition does not comprise, as a fluorescent agent, 2-[2-(4-dialkylamino)phenylethenyl]-1-alkylpyridinium wherein the alkyl radical of the pyridinium nucleus is a methyl or ethyl radical, the alkyl radical of the benzene nucleus is a methyl radical, and the counterion is a halide~~

wherein the at least one fluorescent dye is chosen from dyes of the following formulae (F1) and (F3):



(F1)



wherein:

R₁ and R₂, which may be identical or different, are each chosen from:

- a hydrogen atom;
- linear and branched alkyl radicals comprising from 1 to 10 carbon atoms, optionally interrupted and/or substituted with at least one entity chosen from hetero atoms and groups comprising at least one hetero atom and/or optionally substituted with at least one halogen atom;
- aryl and arylalkyl radicals, wherein the aryl group comprises 6 carbon atoms and the alkyl radical comprises from 1 to 4 carbon atoms; the aryl radical is optionally substituted with at least alkyl radical chosen from linear and branched alkyl radicals comprising from 1 to 4 carbon atoms optionally interrupted and/or substituted with at least one entity chosen from hetero atoms and groups comprising at least one hetero atom and/or optionally substituted with at least one halogen atom;
- R₁ and R₂ may optionally be linked so as to form a heterocycle with the nitrogen atom and may comprise at least one other hetero atom, wherein the heterocycle is optionally substituted with at least one alkyl radical

chosen from linear and branched alkyl radicals and optionally being interrupted and/or substituted with at least one entity chosen from hetero atoms and groups comprising at least one hetero atom and/or optionally substituted with at least one halogen atom; and

- R₁ or R₂ may optionally be engaged in a heterocycle comprising the nitrogen atom and one of the carbon atoms of the phenyl group bearing the nitrogen atom;

R₃ and R₄, which may be identical or different, are each chosen from a hydrogen atom and alkyl radicals comprising from 1 to 4 carbon atoms;

R₅, which may be identical or different, are each chosen from a hydrogen atom, halogen atoms and linear and branched alkyl radicals comprising from 1 to 4 carbon atoms, optionally interrupted with at least one hetero atom;

R₆, which may be identical or different, are each chosen from a hydrogen atom; halogen atoms; linear and branched alkyl radicals comprising from 1 to 4 carbon atoms, optionally substituted and/or interrupted with at least one entity chosen from hetero atoms and groups bearing at least one hetero atom and/or optionally substituted with at least one halogen atom;

X is chosen from:

- linear and branched alkyl radicals comprising from 1 to 14 carbon atoms and alkenyl radicals comprising from 2 to 14 carbon atoms, optionally interrupted and/or substituted with at least one entity chosen from hetero atoms and groups bearing at least one hetero atom and/or optionally substituted with at least one halogen atom;

- 5- and 6-membered heterocyclic radicals optionally substituted with at least one alkyl radical chosen from linear and branched alkyl radicals comprising from 1 to 14 carbon atoms, optionally substituted with at least one hetero atom; optionally substituted with at least one aminoalkyl radical chosen from linear and branched aminoalkyl radicals comprising from 1 to 4 carbon atoms, optionally substituted with at least one hetero atom; and optionally substituted with at least one halogen atom;
- fused and non-fused, aromatic and diaromatic radicals, optionally separated with at least one alkyl radical chosen from alkyl radicals comprising from 1 to 4 carbon atoms, wherein at least one of the aryl radicals is optionally substituted with at least one halogen atom or with at least one alkyl radical chosen from alkyl radicals comprising from 1 to 10 carbon atoms optionally substituted and/or interrupted with at least one entity chosen from hetero atoms and groups bearing at least one hetero atom; and
- a dicarbonyl radical;
- provided that the group X possibly bears at least one cationic charge;

a is equal to 0 or 1;

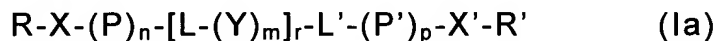
Y⁻, which may be identical or different, are each an anion chosen from organic and mineral anions; and

n is an integer at least equal to 2 and at most equal to the number of cationic charges present in the fluorescent compound.

2. (Original) The composition according to Claim 1, wherein the at least one associative polymer is chosen from those of cationic, nonionic, anionic and amphoteric nature.

3. (Original) The composition according to Claim 1, wherein the associative polyurethane derivatives are anionic and comprise at least one unit derived from a monomer of the α,β -monoethylenically unsaturated carboxylic acid type.

4. (Original) The composition according to Claim 1, wherein the associative polyurethane derivatives are cationic and correspond to the formula (Ia):



wherein:

R and R', which may be identical or different, are each chosen from hydrophobic groups and a hydrogen atom;

X and X', which may be identical or different, are each chosen from groups comprising at least one amine functional group optionally bearing at least one hydrophobic group, and groups L";

L, L' and L", which may be identical or different, are each chosen from groups derived from a diisocyanate;

P and P', which may be identical or different, are each chosen from groups comprising at least one amine functional group optionally bearing at least one hydrophobic group;

Y is chosen from hydrophilic groups;

r is an integer ranging from 1 to 100;

n, m and p, which may be identical or different, each range from 0 to 1000;

provided that the molecule comprises at least one amine functional group chosen from protonated and quaternized amine functional groups and at least one hydrophobic group.

5. (Original) The composition according to Claim 4, wherein r is an integer ranging from 1 to 50.

6. (Original) The composition according to Claim 5, wherein r is an integer ranging from 1 to 25.

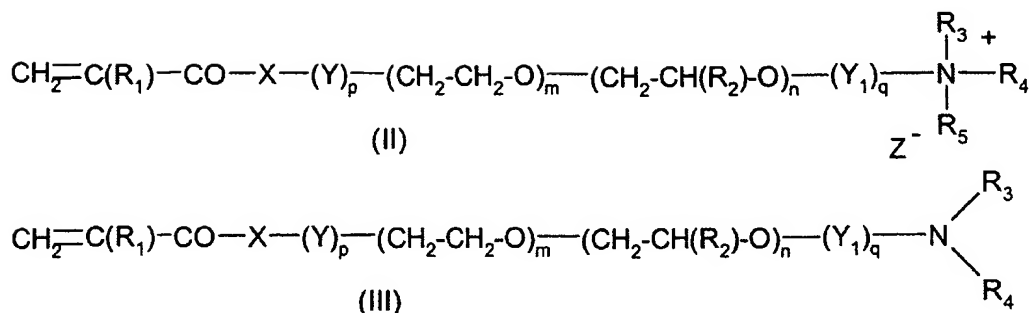
7. (Original) The composition according to Claim 1, wherein the associative polyurethane derivatives are chosen from nonionic polyether polyurethanes.

8. (Original) The composition according to Claim 1, wherein the associative cellulose derivatives are cationic and are chosen from celluloses and hydroxyethylcelluloses quaternized with at least one hydrophobic group.

9. (Original) The composition according to Claim 1, wherein the associative cellulose derivatives are nonionic and are chosen from hydroxyethylcelluloses modified with at least one hydrophobic group.

10. (Original) The composition according to Claim 1, wherein the associative polyvinyl lactam derivatives are cationic and comprise:

- a) at least one monomer chosen from monomers of vinyl lactam and alkyl vinyl lactam;
- b) at least one monomer chosen from monomers of formulae (II) and (III):



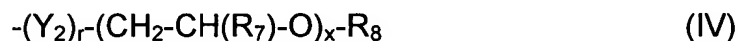
wherein:

X is chosen from an oxygen atom and NR₆ radicals,

R₁ and R₆, which may be identical or different, are each chosen from a hydrogen atom and linear and branched C₁-C₅ alkyl radicals,

R₂ is chosen from linear and branched C₁-C₄ alkyl radicals,

R₃, R₄ and R₅, which may be identical or different, are each chosen from a hydrogen atom, linear and branched C₁-C₃₀ alkyl radicals, and radicals of formula (IV):



Y, Y₁ and Y₂, which may be identical or different, are each chosen from linear and branched C₂-C₁₆ alkylene radicals,

R₇ is chosen from a hydrogen atom, linear and branched C₁-C₄ alkyl radicals, and linear and branched C₁-C₄ hydroxyalkyl radicals,

R₈ is chosen from a hydrogen atom and linear and branched C₁-C₃₀ alkyl radicals,

p, q and r, which may be identical or different, are each 0 or 1,

m and n, which may be identical or different, are each an integer ranging from 0 to 100,

x is an integer ranging from 1 to 100,

Z⁻ is an anion chosen from organic and mineral acid anions,

with the proviso that:

- at least one of the substituents chosen from R_3 , R_4 , R_5 and R_8 is chosen from linear and branched C_9 - C_{30} alkyl radicals,

- if m or n is other than zero, then q is equal to 1, and

- if m or n is equal to zero, then p or q is equal to 0.

11. (Original) The composition according to Claim 1, wherein the associative polyvinyl lactam derivatives are nonionic and are chosen from copolymers of vinylpyrrolidone and of at least one fatty-chain hydrophobic monomer.

12. (Original) The composition according to Claim 1, wherein the associative unsaturated polyacid derivatives are chosen from anionic polymers comprising at least one hydrophilic unit of olefinic unsaturated carboxylic acid type and at least one hydrophobic unit of unsaturated carboxylic acid (C_{10} - C_{30}) alkyl ester type.

13. (Original) The composition according to Claim 1, wherein the associative unsaturated polyacid derivatives are chosen from anionic polymers comprising among its monomers at least one α,β -monoethylenically unsaturated carboxylic acid and at least one ester of an α,β -monoethylenically unsaturated carboxylic acid and of an oxyalkylenated fatty alcohol.

14. (Original) The composition according to Claim 12, wherein the carboxylic acid is chosen from acrylic acids and methacrylic acids.

15. (Original) The composition according to Claim 13, wherein the carboxylic acid is chosen from acrylic acids and methacrylic acids.

16. (Original) The composition according to Claim 1, wherein the at least one associative polymer is present in an amount ranging from 0.01% to 10% by weight, relative to the total weight of the composition.

17. (Original) The composition according to Claim 16, wherein the at least one associative polymer is present in an amount ranging from 0.1% to 5% by weight, relative to the total weight of the composition.

18. (Original) The composition according to Claim 1, wherein the optionally neutralized fluorescent dye is soluble in the cosmetic medium to at least 0.001 g/l at a temperature ranging from 15°C to 25°C.

19. (Original) The composition according to Claim 18, wherein the optionally neutralized fluorescent dye is soluble in the cosmetic medium to at least 0.5 g/l at a temperature ranging from 15°C to 25°C.

20. (Original) The composition according to Claim 19, wherein the optionally neutralized fluorescent dye is soluble in the cosmetic medium to at least 1 g/l at a temperature ranging from 15°C to 25°C.

21. (Original) The composition according to Claim 20, wherein the optionally neutralized fluorescent dye is soluble in the cosmetic medium to at least 5 g/l at a temperature ranging from 15°C to 25°C.

22. (Original) The composition according to Claim 1, wherein the at least one fluorescent dye chosen from dyes in the orange range.

23. (Original) The composition according to Claim 1, wherein the at least one fluorescent dye provides a reflectance maximum that is in the wavelength range from 500 to 650 nanometers.

24. (Original) The composition according to Claim 23, wherein the at least one fluorescent dye provides a reflectance maximum that is in the wavelength range from 550 to 620 nanometers.

25.-26. (Canceled).

27. (Currently amended) The composition according to Claim ~~[[26]]~~1, wherein in the formula (F3) defining R₁ and R₂, the linear and branched alkyl radicals are chosen from linear and branched alkyl radicals comprising from 1 to 4 carbon atoms.

28. (Currently amended) The composition according to Claim ~~[[26]]~~1, wherein in the formula (F3) defining R₁ and R₂, the heterocycle is optionally substituted with at least one alkyl radical chosen from linear and branched alkyl radicals comprising from 1 to 4 carbon atoms.

29. (Original) The composition according to Claim 1, wherein the at least one fluorescent dye is present in an amount ranging from 0.01% to 20% by weight, relative to the total weight of the composition.

30. (Original) The composition according to Claim 29, wherein the at least one fluorescent dye is present in an amount ranging from 0.05% to 10% by weight, relative to the total weight of the composition.

31. (Original) The composition according to Claim 30, wherein the at least one fluorescent dye is present in an amount ranging from 0.1% to 5% by weight, relative to the total weight of the composition.

32. (Original) The composition according to Claim 1, further comprising at least one non-fluorescent additional direct dye chosen from direct dyes of nonionic, cationic and anionic nature.

33. (Original) The composition according to Claim 32, wherein the at least one additional direct dye is chosen from nitrobenzene dyes, azo dyes, anthraquinone

dyes, naphthoquinone dyes, benzoquinone dyes, phenothiazine dyes, indigoid dyes, xanthene dyes, phenanthridine dyes, phthalocyanin dyes and triarylmethane-based dyes.

34. (Original) The composition according to Claim 32, wherein the at least one additional direct dye is present in an amount ranging from 0.0005% to 12% by weight, relative to the total weight of the composition.

35. (Original) The composition according to Claim 1, wherein the composition is in the form of a lightening dyeing shampoo.

36. (Original) The composition according to Claim 1, further comprising at least one oxidation base chosen from para-phenylenediamines, bis(phenyl)alkylenediamines, para-aminophenols, ortho-aminophenols and heterocyclic bases, and the acid and base addition salts thereof.

37. (Original) The composition according to Claim 36, wherein the at least one oxidation base is present in an amount ranging from 0.0005% to 12% by weight, relative to the total weight of the composition.

38. (Original) The composition according to Claim 36, further comprising at least one coupler chosen from meta-phenylenediamines, meta-aminophenols, meta-diphenols and heterocyclic couplers, and the acid and base addition salts thereof.

39. (Original) The composition according to Claim 38, wherein the at least one coupler is present in an amount ranging from 0.0001% to 10% by weight, relative to the total weight of the composition.

40. (Currently amended) A ready-to-use composition comprising, in a cosmetically acceptable medium,

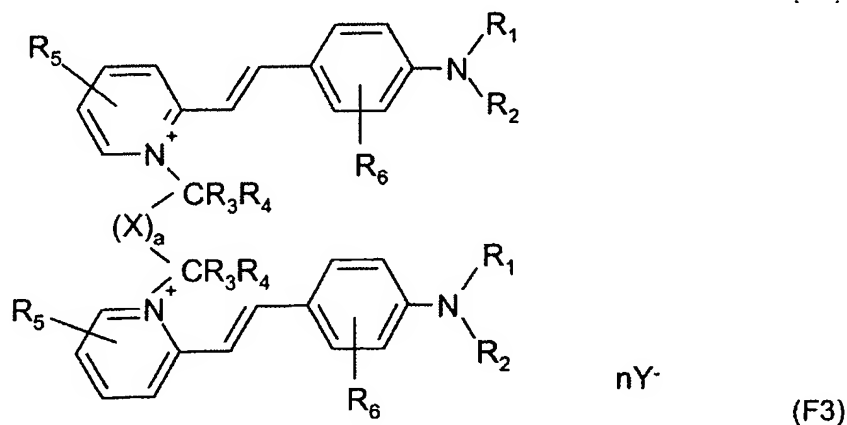
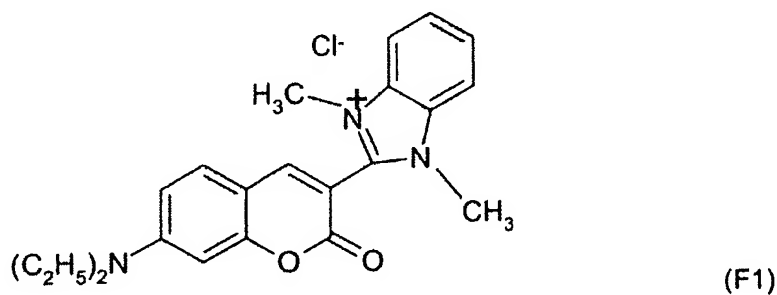
at least one fluorescent dye that is soluble in said medium;

at least one associative polymer chosen from associative polyurethane derivatives, associative cellulose derivatives, associative polyvinyl lactam derivatives and associative unsaturated polyacid derivatives; and

at least one oxidizing agent;

~~provided that the composition does not comprise, as a fluorescent agent, 2-[2-(4-dialkylamino)phenylethenyl]-1-alkylpyridinium wherein the alkyl radical of the pyridinium nucleus is a methyl or ethyl radical, the alkyl radical of the benzene nucleus is a methyl radical, and the counterion is a halide~~

wherein the at least one fluorescent dye is chosen from dyes of the following formulae (F1) and (F3):



wherein:

R₁ and R₂, which may be identical or different, are each chosen from:

- a hydrogen atom;
- linear and branched alkyl radicals comprising from 1 to 10 carbon atoms,
optionally interrupted and/or substituted with at least one entity chosen
from hetero atoms and groups comprising at least one hetero atom and/or
optionally substituted with at least one halogen atom;
- aryl and arylalkyl radicals, wherein the aryl group comprises 6 carbon
atoms and the alkyl radical comprises from 1 to 4 carbon atoms; the aryl
radical is optionally substituted with at least alkyl radical chosen from
linear and branched alkyl radicals comprising from 1 to 4 carbon atoms
optionally interrupted and/or substituted with at least one entity chosen
from hetero atoms and groups comprising at least one hetero atom and/or
optionally substituted with at least one halogen atom;
- R₁ and R₂ may optionally be linked so as to form a heterocycle with the
nitrogen atom and may comprise at least one other hetero atom, wherein
the heterocycle is optionally substituted with at least one alkyl radical
chosen from linear and branched alkyl radicals and optionally being
interrupted and/or substituted with at least one entity chosen from hetero
atoms and groups comprising at least one hetero atom and/or optionally
substituted with at least one halogen atom; and
- R₁ or R₂ may optionally be engaged in a heterocycle comprising the
nitrogen atom and one of the carbon atoms of the phenyl group bearing

the nitrogen atom;

R₃ and R₄, which may be identical or different, are each chosen from a hydrogen atom and alkyl radicals comprising from 1 to 4 carbon atoms;

R₅, which may be identical or different, are each chosen from a hydrogen atom, halogen atoms and linear and branched alkyl radicals comprising from 1 to 4 carbon atoms, optionally interrupted with at least one hetero atom;

R₆, which may be identical or different, are each chosen from a hydrogen atom; halogen atoms; linear and branched alkyl radicals comprising from 1 to 4 carbon atoms, optionally substituted and/or interrupted with at least one entity chosen from hetero atoms and groups bearing at least one hetero atom and/or optionally substituted with at least one halogen atom;

X is chosen from:

- linear and branched alkyl radicals comprising from 1 to 14 carbon atoms and alkenyl radicals comprising from 2 to 14 carbon atoms, optionally interrupted and/or substituted with at least one entity chosen from hetero atoms and groups bearing at least one hetero atom and/or optionally substituted with at least one halogen atom;
- 5- and 6-membered heterocyclic radicals optionally substituted with at least one alkyl radical chosen from linear and branched alkyl radicals comprising from 1 to 14 carbon atoms, optionally substituted with at least one hetero atom; optionally substituted with at least one aminoalkyl radical chosen from linear and branched aminoalkyl radicals comprising from 1 to 4 carbon atoms, optionally substituted with at least one hetero atom; and

optionally substituted with at least one halogen atom;

- fused and non-fused, aromatic and diaromatic radicals, optionally separated with at least one alkyl radical chosen from alkyl radicals comprising from 1 to 4 carbon atoms, wherein at least one of the aryl radicals is optionally substituted with at least one halogen atom or with at least one alkyl radical chosen from alkyl radicals comprising from 1 to 10 carbon atoms optionally substituted and/or interrupted with at least one entity chosen from hetero atoms and groups bearing at least one hetero atom; and
- a dicarbonyl radical;
- provided that the group X possibly bears at least one cationic charge;

a is equal to 0 or 1;

Y⁻, which may be identical or different, are each an anion chosen from organic and mineral anions; and

n is an integer at least equal to 2 and at most equal to the number of cationic charges present in the fluorescent compound.

41. (Original) The composition according to Claim 40, wherein the at least one oxidizing agent is chosen from hydrogen peroxide, urea peroxide, alkali metal bromates, persalts, and enzymes.

42. (Original) The composition according to Claim 41, wherein the persalts are chosen from perborates and persulphates.

43. (Original) The composition according to Claim 41, wherein the enzymes are chosen from peroxidases and two-electron and four-electron oxidoreductases.

44. (Currently amended) A process for dyeing human keratin fibers with a lightening effect, comprising:

a) applying to said keratin fibers a composition for a time that is sufficient to develop desired coloration and lightening, wherein the composition comprises, in a cosmetically acceptable medium,

at least one fluorescent dye that is soluble in said medium; and

at least one associative polymer chosen from associative polyurethane derivatives, associative cellulose derivatives, associative polyvinyl lactam derivatives and associative unsaturated polyacid derivatives;

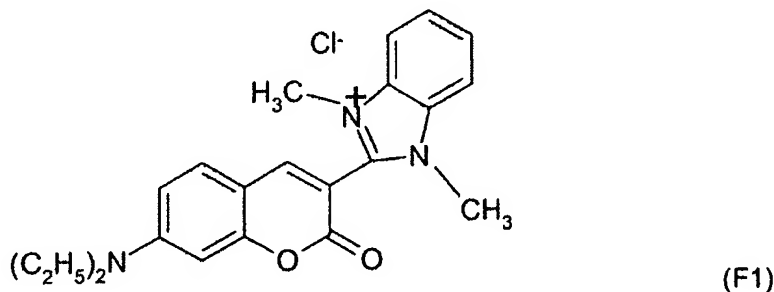
~~provided that the composition does not comprise, as a fluorescent agent, 2-[2-(4-dialkylamino)phenylethenyl]-1-alkylpyridinium wherein the alkyl radical of the pyridinium nucleus is a methyl or ethyl radical, the alkyl radical of the benzene nucleus is a methyl radical, and the counterion is a halide,~~

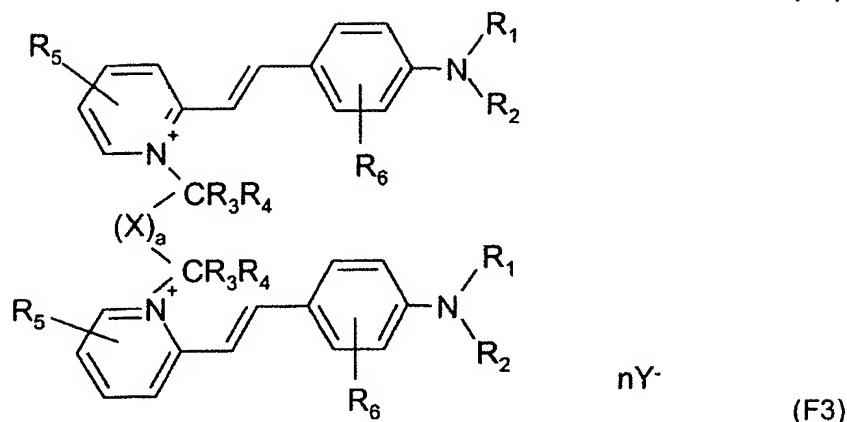
b) optionally rinsing the keratin fibers,

c) optionally washing the keratin fibers with shampoo and rinsing the keratin fibers, and

d) drying the keratin fibers or leaving the keratin fibers to dry,

wherein the at least one fluorescent dye is chosen from dyes of the following formulae (F1) and (F3):





wherein:

R₁ and R₂, which may be identical or different, are each chosen from:

- a hydrogen atom;
- linear and branched alkyl radicals comprising from 1 to 10 carbon atoms, optionally interrupted and/or substituted with at least one entity chosen from hetero atoms and groups comprising at least one hetero atom and/or optionally substituted with at least one halogen atom;
- aryl and arylalkyl radicals, wherein the aryl group comprises 6 carbon atoms and the alkyl radical comprises from 1 to 4 carbon atoms; the aryl radical is optionally substituted with at least alkyl radical chosen from linear and branched alkyl radicals comprising from 1 to 4 carbon atoms optionally interrupted and/or substituted with at least one entity chosen from hetero atoms and groups comprising at least one hetero atom and/or optionally substituted with at least one halogen atom;
- R₁ and R₂ may optionally be linked so as to form a heterocycle with the nitrogen atom and may comprise at least one other hetero atom, wherein

the heterocycle is optionally substituted with at least one alkyl radical
chosen from linear and branched alkyl radicals and optionally being
interrupted and/or substituted with at least one entity chosen from hetero
atoms and groups comprising at least one hetero atom and/or optionally
substituted with at least one halogen atom; and

- R₁ or R₂ may optionally be engaged in a heterocycle comprising the
nitrogen atom and one of the carbon atoms of the phenyl group bearing
the nitrogen atom;

R₃ and R₄, which may be identical or different, are each chosen from a hydrogen atom
and alkyl radicals comprising from 1 to 4 carbon atoms;

R₅, which may be identical or different, are each chosen from a hydrogen atom, halogen
atoms and linear and branched alkyl radicals comprising from 1 to 4 carbon atoms,
optionally interrupted with at least one hetero atom;

R₆, which may be identical or different, are each chosen from a hydrogen atom; halogen
atoms; linear and branched alkyl radicals comprising from 1 to 4 carbon atoms,
optionally substituted and/or interrupted with at least one entity chosen from hetero
atoms and groups bearing at least one hetero atom and/or optionally substituted with at
least one halogen atom;

X is chosen from:

- linear and branched alkyl radicals comprising from 1 to 14 carbon atoms
and alkenyl radicals comprising from 2 to 14 carbon atoms, optionally
interrupted and/or substituted with at least one entity chosen from hetero
atoms and groups bearing at least one hetero atom and/or optionally

substituted with at least one halogen atom;

- 5- and 6-membered heterocyclic radicals optionally substituted with at least one alkyl radical chosen from linear and branched alkyl radicals comprising from 1 to 14 carbon atoms, optionally substituted with at least one hetero atom; optionally substituted with at least one aminoalkyl radical chosen from linear and branched aminoalkyl radicals comprising from 1 to 4 carbon atoms, optionally substituted with at least one hetero atom; and optionally substituted with at least one halogen atom;
- fused and non-fused, aromatic and diaromatic radicals, optionally separated with at least one alkyl radical chosen from alkyl radicals comprising from 1 to 4 carbon atoms, wherein at least one of the aryl radicals is optionally substituted with at least one halogen atom or with at least one alkyl radical chosen from alkyl radicals comprising from 1 to 10 carbon atoms optionally substituted and/or interrupted with at least one entity chosen from hetero atoms and groups bearing at least one hetero atom; and
- a dicarbonyl radical;
- provided that the group X possibly bears at least one cationic charge;

a is equal to 0 or 1;

Y⁻, which may be identical or different, are each an anion chosen from organic and mineral anions; and

n is an integer at least equal to 2 and at most equal to the number of cationic charges present in the fluorescent compound.

45. (Original) The process according to Claim 44, further comprising a preliminary operation comprising

separately storing, on the one hand, said composition, and, on the other hand, a composition comprising, in a cosmetically acceptable medium, at least one oxidizing agent,

mixing together the two compositions at the time of use,

applying this mixture to the keratin fibers for a time that is sufficient to develop desired coloration,

rinsing the keratin fibers, and

optionally washing the keratin fibers with shampoo, rinsing the keratin fibers again, and drying the keratin fibers.

46. (Original) The process according to Claim 44, wherein the human keratin fibers are hair with a tone height of less than or equal to 6.

47. (Original) The process according to Claim 46, wherein the human keratin fibers are hair with a tone height of less than or equal to 4.

48. (Original) The process according to Claim 44, wherein the human keratin fibers are artificially colored or pigmented.

49. (Currently amended) A process for coloring dark skin with a lightening effect, comprising

applying to the skin a composition comprising, in a cosmetically acceptable medium,

at least one fluorescent dye that is soluble in said medium; and

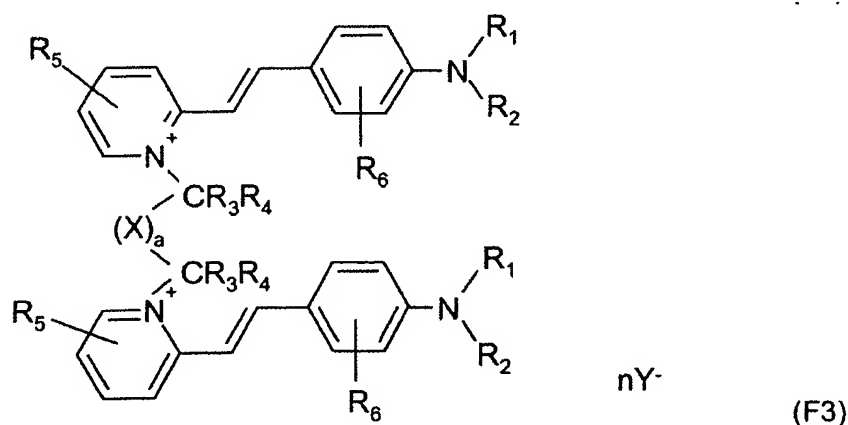
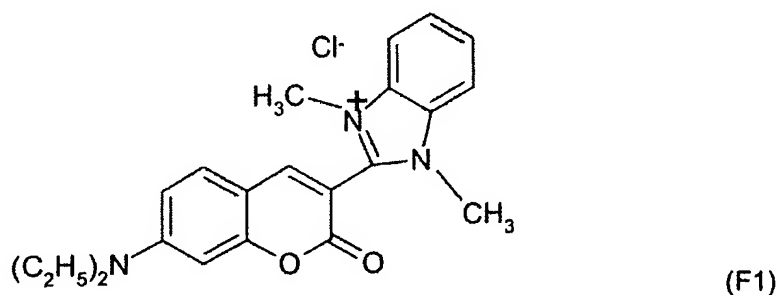
at least one associative polymer chosen from associative polyurethane

derivatives, associative cellulose derivatives, associative polyvinylactam derivatives and associative unsaturated polyacid derivatives;

~~provided that the composition does not comprise, as a fluorescent agent, 2-[2-(4-dialkylamino)phenylethenyl]-1-alkylpyridinium wherein the alkyl radical of the pyridinium nucleus is a methyl or ethyl radical, the alkyl radical of the benzene nucleus is a methyl radical, and the counterion is a halide; and~~

drying the skin or leaving the skin to dry,

wherein the at least one fluorescent dye is chosen from dyes of the following formulae (F1) and (F3):



wherein:

R_1 and R_2 , which may be identical or different, are each chosen from:

- a hydrogen atom;
- linear and branched alkyl radicals comprising from 1 to 10 carbon atoms,
optionally interrupted and/or substituted with at least one entity chosen
from hetero atoms and groups comprising at least one hetero atom and/or
optionally substituted with at least one halogen atom;
- aryl and arylalkyl radicals, wherein the aryl group comprises 6 carbon
atoms and the alkyl radical comprises from 1 to 4 carbon atoms; the aryl
radical is optionally substituted with at least alkyl radical chosen from
linear and branched alkyl radicals comprising from 1 to 4 carbon atoms
optionally interrupted and/or substituted with at least one entity chosen
from hetero atoms and groups comprising at least one hetero atom and/or
optionally substituted with at least one halogen atom;
- R₁ and R₂ may optionally be linked so as to form a heterocycle with the
nitrogen atom and may comprise at least one other hetero atom, wherein
the heterocycle is optionally substituted with at least one alkyl radical
chosen from linear and branched alkyl radicals and optionally being
interrupted and/or substituted with at least one entity chosen from hetero
atoms and groups comprising at least one hetero atom and/or optionally
substituted with at least one halogen atom; and
- R₁ or R₂ may optionally be engaged in a heterocycle comprising the
nitrogen atom and one of the carbon atoms of the phenyl group bearing
the nitrogen atom;

R₃ and R₄, which may be identical or different, are each chosen from a hydrogen atom

and alkyl radicals comprising from 1 to 4 carbon atoms;

R₅, which may be identical or different, are each chosen from a hydrogen atom, halogen atoms and linear and branched alkyl radicals comprising from 1 to 4 carbon atoms, optionally interrupted with at least one hetero atom;

R₆, which may be identical or different, are each chosen from a hydrogen atom; halogen atoms; linear and branched alkyl radicals comprising from 1 to 4 carbon atoms, optionally substituted and/or interrupted with at least one entity chosen from hetero atoms and groups bearing at least one hetero atom and/or optionally substituted with at least one halogen atom;

X is chosen from:

- linear and branched alkyl radicals comprising from 1 to 14 carbon atoms and alkenyl radicals comprising from 2 to 14 carbon atoms, optionally interrupted and/or substituted with at least one entity chosen from hetero atoms and groups bearing at least one hetero atom and/or optionally substituted with at least one halogen atom;
- 5- and 6-membered heterocyclic radicals optionally substituted with at least one alkyl radical chosen from linear and branched alkyl radicals comprising from 1 to 14 carbon atoms, optionally substituted with at least one hetero atom; optionally substituted with at least one aminoalkyl radical chosen from linear and branched aminoalkyl radicals comprising from 1 to 4 carbon atoms, optionally substituted with at least one hetero atom; and optionally substituted with at least one halogen atom;
- fused and non-fused, aromatic and diaromatic radicals, optionally

separated with at least one alkyl radical chosen from alkyl radicals
comprising from 1 to 4 carbon atoms, wherein at least one of the aryl
radicals is optionally substituted with at least one halogen atom or with at
least one alkyl radical chosen from alkyl radicals comprising from 1 to 10
carbon atoms optionally substituted and/or interrupted with at least one
entity chosen from hetero atoms and groups bearing at least one hetero
atom; and

- a dicarbonyl radical;

- provided that the group X possibly bears at least one cationic charge;

a is equal to 0 or 1;

Y⁻, which may be identical or different, are each an anion chosen from organic
and mineral anions; and

n is an integer at least equal to 2 and at most equal to the number of cationic
charges present in the fluorescent compound.

50. (Currently amended) A multi-compartment device for coloring and/or
lightening keratin fibers, comprising

at least one compartment comprising a composition comprising, in a cosmetically
acceptable medium,

at least one fluorescent dye that is soluble in said medium; and

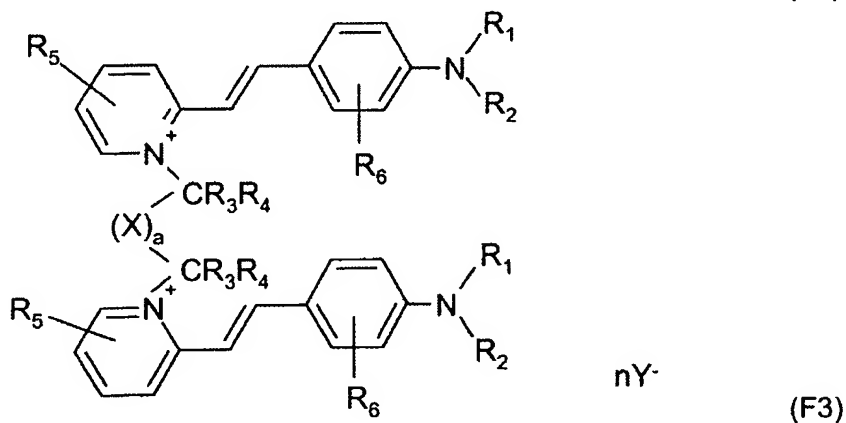
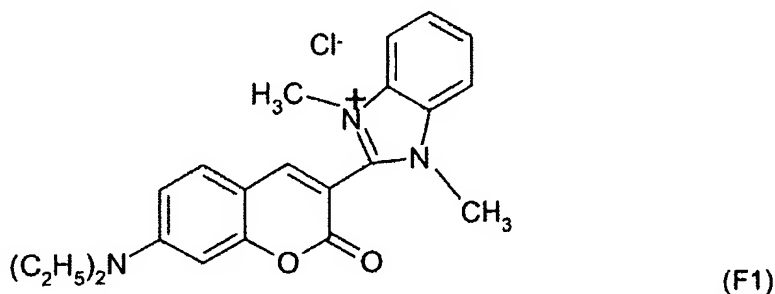
at least one associative polymer chosen from associative polyurethane
derivatives, associative cellulose derivatives, associative polyvinyl lactam derivatives
and associative unsaturated polyacid derivatives;

~~provided that the composition does not comprise, as a fluorescent agent,~~

~~2-[2-(4-dialkylamino)phenylethenyl]-1-alkylpyridinium wherein the alkyl radical of the pyridinium nucleus is a methyl or ethyl radical, the alkyl radical of the benzene nucleus is a methyl radical, and the counterion is a halide, and~~

at least one other compartment comprising a composition comprising at least one oxidizing agent,

wherein the at least one fluorescent dye is chosen from dyes of the following formulae (F1) and (F3):



wherein:

R_1 and R_2 , which may be identical or different, are each chosen from:

- a hydrogen atom;
- linear and branched alkyl radicals comprising from 1 to 10 carbon atoms,

optionally interrupted and/or substituted with at least one entity chosen from hetero atoms and groups comprising at least one hetero atom and/or optionally substituted with at least one halogen atom;

- aryl and arylalkyl radicals, wherein the aryl group comprises 6 carbon atoms and the alkyl radical comprises from 1 to 4 carbon atoms; the aryl radical is optionally substituted with at least alkyl radical chosen from linear and branched alkyl radicals comprising from 1 to 4 carbon atoms optionally interrupted and/or substituted with at least one entity chosen from hetero atoms and groups comprising at least one hetero atom and/or optionally substituted with at least one halogen atom;

- R₁ and R₂ may optionally be linked so as to form a heterocycle with the nitrogen atom and may comprise at least one other hetero atom, wherein the heterocycle is optionally substituted with at least one alkyl radical chosen from linear and branched alkyl radicals and optionally being interrupted and/or substituted with at least one entity chosen from hetero atoms and groups comprising at least one hetero atom and/or optionally substituted with at least one halogen atom; and

- R₁ or R₂ may optionally be engaged in a heterocycle comprising the nitrogen atom and one of the carbon atoms of the phenyl group bearing the nitrogen atom;

R₃ and R₄, which may be identical or different, are each chosen from a hydrogen atom and alkyl radicals comprising from 1 to 4 carbon atoms;

R₅, which may be identical or different, are each chosen from a hydrogen atom, halogen

atoms and linear and branched alkyl radicals comprising from 1 to 4 carbon atoms, optionally interrupted with at least one hetero atom;

R₆, which may be identical or different, are each chosen from a hydrogen atom; halogen atoms; linear and branched alkyl radicals comprising from 1 to 4 carbon atoms, optionally substituted and/or interrupted with at least one entity chosen from hetero atoms and groups bearing at least one hetero atom and/or optionally substituted with at least one halogen atom;

X is chosen from:

- linear and branched alkyl radicals comprising from 1 to 14 carbon atoms and alkenyl radicals comprising from 2 to 14 carbon atoms, optionally interrupted and/or substituted with at least one entity chosen from hetero atoms and groups bearing at least one hetero atom and/or optionally substituted with at least one halogen atom;
- 5- and 6-membered heterocyclic radicals optionally substituted with at least one alkyl radical chosen from linear and branched alkyl radicals comprising from 1 to 14 carbon atoms, optionally substituted with at least one hetero atom; optionally substituted with at least one aminoalkyl radical chosen from linear and branched aminoalkyl radicals comprising from 1 to 4 carbon atoms, optionally substituted with at least one hetero atom; and optionally substituted with at least one halogen atom;
- fused and non-fused, aromatic and diaromatic radicals, optionally separated with at least one alkyl radical chosen from alkyl radicals comprising from 1 to 4 carbon atoms, wherein at least one of the aryl

radicals is optionally substituted with at least one halogen atom or with at least one alkyl radical chosen from alkyl radicals comprising from 1 to 10 carbon atoms optionally substituted and/or interrupted with at least one entity chosen from hetero atoms and groups bearing at least one hetero atom; and

- a dicarbonyl radical;

- provided that the group X possibly bears at least one cationic charge;

a is equal to 0 or 1;

Y⁻, which may be identical or different, are each an anion chosen from organic and mineral anions; and

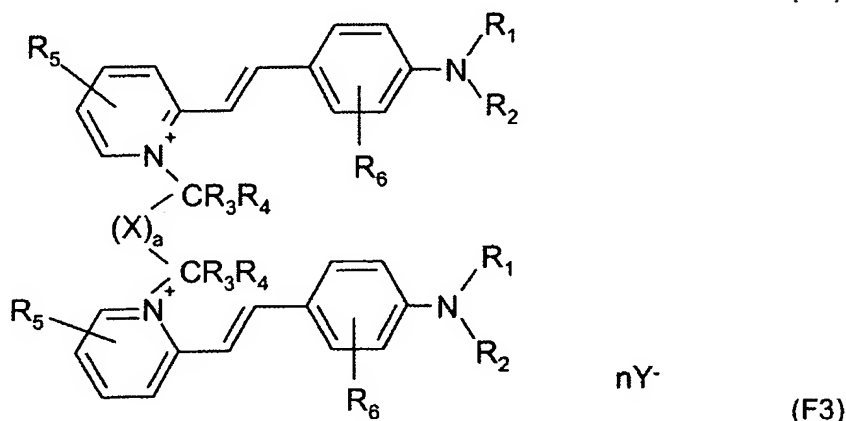
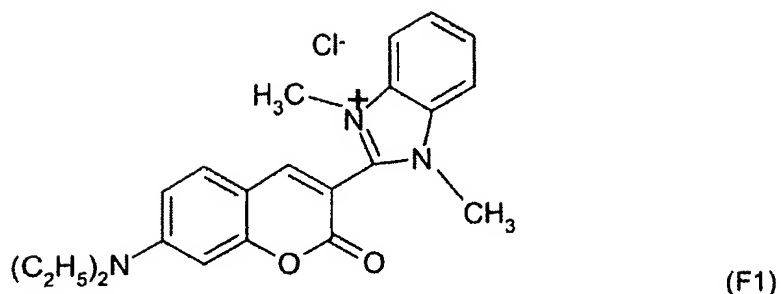
n is an integer at least equal to 2 and at most equal to the number of cationic charges present in the fluorescent compound.

51. (Currently amended) A method for dyeing a keratin material with a lightening effect comprising, applying to the keratin material a composition comprising, in a cosmetically acceptable medium,

at least one fluorescent dye that is soluble in said medium, and

at least one associative polymer chosen from associative polyurethane derivatives, associative cellulose derivatives, associative polyvinyl lactam derivatives and associative unsaturated polyacid derivatives,

wherein the at least one fluorescent dye is chosen from dyes of the following formulae (F1), (F3), and (F4):



wherein:

R₁ and R₂, which may be identical or different, are each chosen from:

- a hydrogen atom;
- linear and branched alkyl radicals comprising from 1 to 10 carbon atoms,
optionally interrupted and/or substituted with at least one entity chosen
from hetero atoms and groups comprising at least one hetero atom and/or
optionally substituted with at least one halogen atom;
- aryl and arylalkyl radicals, wherein the aryl group comprises 6 carbon
atoms and the alkyl radical comprises from 1 to 4 carbon atoms; the aryl
radical is optionally substituted with at least alkyl radical chosen from
linear and branched alkyl radicals comprising from 1 to 4 carbon atoms

optionally interrupted and/or substituted with at least one entity chosen from hetero atoms and groups comprising at least one hetero atom and/or optionally substituted with at least one halogen atom;

- R₁ and R₂ may optionally be linked so as to form a heterocycle with the nitrogen atom and may comprise at least one other hetero atom, wherein the heterocycle is optionally substituted with at least one alkyl radical chosen from linear and branched alkyl radicals and optionally being interrupted and/or substituted with at least one entity chosen from hetero atoms and groups comprising at least one hetero atom and/or optionally substituted with at least one halogen atom; and

- R₁ or R₂ may optionally be engaged in a heterocycle comprising the nitrogen atom and one of the carbon atoms of the phenyl group bearing the nitrogen atom;

R₃ and R₄, which may be identical or different, are each chosen from a hydrogen atom and alkyl radicals comprising from 1 to 4 carbon atoms;

R₅, which may be identical or different, are each chosen from a hydrogen atom, halogen atoms and linear and branched alkyl radicals comprising from 1 to 4 carbon atoms, optionally interrupted with at least one hetero atom;

R₆, which may be identical or different, are each chosen from a hydrogen atom; halogen atoms; linear and branched alkyl radicals comprising from 1 to 4 carbon atoms, optionally substituted and/or interrupted with at least one entity chosen from hetero atoms and groups bearing at least one hetero atom and/or optionally substituted with at least one halogen atom;

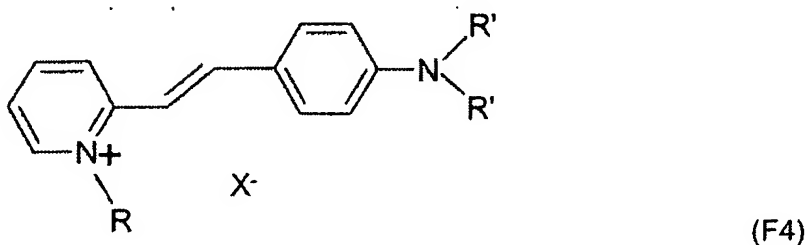
X is chosen from:

- linear and branched alkyl radicals comprising from 1 to 14 carbon atoms
and alkenyl radicals comprising from 2 to 14 carbon atoms, optionally
interrupted and/or substituted with at least one entity chosen from hetero
atoms and groups bearing at least one hetero atom and/or optionally
substituted with at least one halogen atom;
- 5- and 6-membered heterocyclic radicals optionally substituted with at
least one alkyl radical chosen from linear and branched alkyl radicals
comprising from 1 to 14 carbon atoms, optionally substituted with at least
one hetero atom; optionally substituted with at least one aminoalkyl radical
chosen from linear and branched aminoalkyl radicals comprising from 1 to
4 carbon atoms, optionally substituted with at least one hetero atom; and
optionally substituted with at least one halogen atom;
- fused and non-fused, aromatic and diaromatic radicals, optionally
separated with at least one alkyl radical chosen from alkyl radicals
comprising from 1 to 4 carbon atoms, wherein at least one of the aryl
radicals is optionally substituted with at least one halogen atom or with at
least one alkyl radical chosen from alkyl radicals comprising from 1 to 10
carbon atoms optionally substituted and/or interrupted with at least one
entity chosen from hetero atoms and groups bearing at least one hetero
atom; and
- a dicarbonyl radical;
- provided that the group X possibly bears at least one cationic charge;

a is equal to 0 or 1;

Y⁻, which may be identical or different, are each an anion chosen from organic and mineral anions; and

n is an integer at least equal to 2 and at most equal to the number of cationic charges present in the fluorescent compound; and



wherein R is chosen from methyl and ethyl radicals; R' are each a methyl radical and X⁻ is an anion.

52. (Original) The method according to Claim 51, wherein the at least one fluorescent dye is chosen from dyes in the orange range.

53. (Original) The method according to Claim 51, wherein the at least one fluorescent dye provides a reflectance maximum that is in the wavelength range from 500 to 650 nanometers.

54. (Original) The method according to Claim 53, wherein the at least one fluorescent dye provides a reflectance maximum that is in the wavelength range from 550 to 620 nanometers.

55.-56. (Canceled).

57. (Currently amended) The method according to Claim ~~[[56]]~~51, wherein in the formula (F3) defining R₁ and R₂, the linear and branched alkyl radicals are chosen from linear and branched alkyl radicals comprising from 1 to 4 carbon atoms.

58. (Currently amended) The method according to Claim ~~[[56]]~~51, wherein in the formula (F3) defining R₁ and R₂, the heterocycle is optionally substituted with at least one alkyl radical chosen from linear and branched alkyl radicals comprising from 1 to 4 carbon atoms.

59. (Currently amended) The method according to Claim ~~[[56]]~~51, wherein in the formula (F4), X⁻ is an anion chosen from chloride, iodide, sulphate, methasulphate, acetate, and perchlorate.

60. (Original) The method according to Claim 51, wherein the at least one fluorescent dye is present in an amount ranging from 0.01% to 20% by weight, relative to the total weight of the composition.

61. (Original) The method according to Claim 60, wherein the at least one fluorescent dye is present in an amount ranging from 0.05% to 10% by weight, relative to the total weight of the composition.

62. (Original) The method according to Claim 61, wherein the at least one fluorescent dye is present in an amount ranging from 0.1% to 5% by weight, relative to the total weight of the composition.

63. (Original) The method according to Claim 51, wherein the at least one associative polymer is present in an amount ranging from 0.01% to 10% by weight, relative to the total weight of the composition.

64. (Original) The method according to Claim 63, wherein the at least one associative polymer is present in an amount ranging from 0.1% to 5% by weight, relative to the total weight of the composition.

65. (Original) The method according to Claim 51, wherein the keratin material is chosen from artificially colored and pigmented keratin fibers and dark skin.

66. (Original) The method according to Claim 65, wherein the keratin fibers are hair.

67. (Original) The method according to Claim 66, wherein the hair has a tone height of less than or equal to 6.

68. (Original) The method according to Claim 67, wherein the hair has a tone height of less than or equal to 4.